

Title (en)

Vibration damping system and method for variable speed wind turbines

Title (de)

System und Verfahren zur Dämpfung von Schwingungen für eine Windturbine mit variabler Geschwindigkeit

Title (fr)

Système et procédé d'amortissement de vibrations pour une turbine à vent à vitesse variable

Publication

EP 1643122 B1 20130703 (EN)

Application

EP 05254455 A 20050718

Priority

US 95573204 A 20040930

Abstract (en)

[origin: EP1643122A2] A vibration damping technique for a wind turbine sysetm (10) is described. The wind turbine system (10) includes a vibration damper (62), which provides a variable signal (68) to control torque produced by a generator (50) of the wind turbine system (10). The variable signal (68) is based on generator speed and has a first local peak value based on a resonant frequency of tower side-to-side oscillation.

IPC 8 full level

F03D 7/04 (2006.01); **F03D 7/02** (2006.01)

CPC (source: CN EP US)

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F05B 2270/335 (2013.01 - CN EP US); **F05B 2270/337** (2013.01 - CN EP US); **Y02E 10/72** (2013.01 - CN EP US)

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EP3734833A1; CN101493142A; CN102384031A; EP1998041A3; ES2398005R1; EP2426352A3; EP1816347A1; CN103334876A;
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CN 104564536 A 20150429; CN 104564536 B 20170718; CN 1755104 A 20060405; DK 1643122 T3 20130902; ES 2427637 T3 20131031;
US 2006066111 A1 20060330; US 2008067815 A1 20080320; US 7309930 B2 20071218; US 7423352 B2 20080909

DOCDB simple family (application)

EP 05254455 A 20050718; CN 200510098114 A 20050730; CN 200910139823 A 20050730; CN 201410701117 A 20050730;
DK 05254455 T 20050718; ES 05254455 T 20050718; US 94096707 A 20071115; US 95573204 A 20040930